

The Terrestrial Biosphere and Global Change

Implications for natural and managed
ecosystems

This new synthesis summarizes the international research effort in the Global Change and Terrestrial Ecosystems (GCTE) Core Project of the International Geosphere Biosphere Programme (IGBP). Five major thematic areas are covered: ecosystem physiology; ecosystem structure and composition; terrestrial production systems; global biogeochemistry; ecological complexity (biodiversity). A summary of the integrated and interactive effects of global change on the terrestrial biosphere for four key regions of the world is presented, as well as a projection of future trends in the terrestrial component of the global carbon cycle. The book also includes a section on tools developed or modified for global change research.

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The International Geosphere–Biosphere Programme was established in 1986 by the International Council of Scientific Unions, with the stated aim

To describe and understand the interactive physical, chemical and biological processes that regulate the total Earth system, the unique environment that it provides for life, the changes that are occurring in this system, and the manner in which they are influenced by human activities.

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INTERNATIONAL GEOSPHERE – BIOSPHERE PROGRAMME BOOK SERIES

The Terrestrial Biosphere and Global Change

Implications for natural and managed ecosystems

Edited by

Brian Walker, Will Steffen,
Josep Canadell and John Ingram



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